

# **LAMPIRAN 1:**

## **INSTRUMEN PENELITIAN**

Kepada

Siswa SMA Negeri 3 Yogyakarta

*Assalamu'alaikum wr. wb.*

Dengan hormat,

Dengan ini saya mohon bantuan adik-adik untuk mengisi angket penelitian saya yg berjudul **“PENGARUH PEMANFAATAN TEKNOLOGI INFORMASI DAN KOMUNIKASI (TIK) DALAM PEMBELAJARAN EKONOMI TERHADAP MOTIVASI DAN PRESTASI BELAJAR SISWA DI SMAN 3 YOGYAKARTA”**.

Penelitian ini semata-mata digunakan untuk tujuan akademik, oleh karena itu saya sangat berharap adik-adik mengisi angket ini sesuai dengan keadaan yang sesungguhnya. Angket ini dimaksudkan untuk mengumpulkan data pemanfaatan TIK dan motivasi belajar. Jawaban yang anda berikan akan dirahasiakan dan tidak akan berpengaruh terhadap pencapaian nilai akhir anda di sekolah. Identitas anda hanya digunakan untuk mempermudah dalam pengolahan data saja.

Demikian surat ini dibuat, atas bantuan dan partisipasi adik-adik saya mengucapkan terimakasih.

*Wassalamu'alaikum wr. wb.*

Penulis

Andita Faizatul Bachrintania

### Lembar Angket Siswa

#### A. Identitas Responden

Nama :  
 Kelas :  
 Jenis kelamin :  
 Hari/ tanggal :  
 Alamat email/jejaring sosial :

#### B. Petunjuk Pengisian

Jawablah semua pernyataan di bawah ini dengan memberikan tanda *ceklist* (V) pada alternatif jawaban yang sesuai pendapat Anda!

#### C. Alternatif Jawaban

SS = Sangat Setuju  
 S = Setuju  
 KS = Kurang Setuju  
 TS = Tidak Setuju  
 STS = Sangat Tidak Setuju

### Pemanfaatan Teknologi Informasi dan Komunikasi (TIK) dalam Pembelajaran Ekonomi

No.	Pernyataan	SS	S	KS	TS	STS
1.	Dalam pembelajaran ekonomi guru lebih banyak ceramah					
2.	Dalam pembelajaran ekonomi media pembelajaran yang digunakan guru bervariasi					
3.	Saya merasa bosan dalam pembelajaran ekonomi yang tidak menggunakan media pembelajaran					
4.	Dalam pembelajaran ekonomi guru menggunakan fasilitas pembelajaran <i>online</i>					
5.	Dalam pembelajaran guru menggunakan media seperti LCD, laptop, <i>E-learning</i> dan <i>E-book</i>					
6.	Pembelajaran Ekonomi menjadi lebih menyenangkan dengan memanfaatkan teknologi informasi dan komunikasi					
7.	Penggunaan media berbasis teknologi informasi dan komunikasi dalam pembelajaran membuat pelajaran ekonomi menarik					
8.	Penggunaan teknologi informasi dan komunikasi mampu meningkatkan kreativitas saya					

No.	Pernyataan	SS	S	KS	TS	STS
9.	Pembelajaran ekonomi menjadi lebih nyata dengan memanfaatkan teknologi informasi dan komunikasi					
10.	Dengan memanfaatkan teknologi informasi dan komunikasi saya mampu menyelesaikan pekerjaan dengan cepat					
11.	Saya sangat merasakan manfaat penggunaan teknologi informasi dan komunikasi oleh guru mata pelajaran ekonomi					
12.	Saya dapat mengakses informasi tanpa dibatasi jarak, ruang, dan waktu, bisa di mana saja dan kapan saja					
13.	Dalam pembelajaran ekonomi guru menggunakan media pembelajaran seperti LCD dan laptop/komputer					
14.	Saya memanfaatkan internet sebagai sarana untuk belajar					
15.	Setiap mengalami kesulitan dalam mata pelajaran ekonomi saya akan mencari jawaban melalui internet					
16.	Saya memanfaatkan <i>E-Book</i> sebagai sarana untuk belajar					
17.	Saya mampu mengoperasikan komputer					
18.	Saya mampu memanfaatkan internet					
19.	Saya suka belajar ekonomi secara mandiri melalui pembelajaran <i>online</i> atau <i>E-Learning</i>					
20.	Tersedia bahan belajar dari <i>E-Book</i> dan <i>E-Learning</i>					
21.	Tersedianya fasilitas pendukung teknologi informasi dan komunikasi					
<b>TOTAL</b>		<b>21</b>				

### Lembar Angket Motivasi Belajar Siswa

No.	Pernyataan	SS	S	KS	TS	STS
1.	Penggunaan media pembelajaran berbasis teknologi informasi dan komunikasi dalam mata pelajaran ekonomi menarik perhatian saya sehingga menumbuhkan motivasi belajar					
2.	Saya ingin nilai mata pelajaran ekonomi saya bagus					

No.	Pernyataan	SS	S	KS	TS	STS
3.	Saya tidak akan berhenti mengerjakan tugas ekonomi sebelum selesai					
4.	Jika tugas ekonomi yang diberikan guru kurang jelas saya berusaha menanyakannya					
5.	Saya mengerjakan dengan sungguh-sungguh walaupun tugas ekonomi yang diberikan guru sulit dikerjakan					
6.	Bila saya mengalami kesulitan dalam belajar ekonomi saya berusaha bertanya pada orang yang lebih tahu					
7.	Saya menanyakan tugas ekonomi yang tidak jelas yang diberikan guru					
8.	Saya belum puas dengan prestasi belajar ekonomi saya sekarang					
9.	Saya berusaha meluangkan waktu untuk belajar mata pelajaran Ekonomi					
10.	Saya merasa rugi kalau tidak belajar materi mata pelajaran ekonomi					
11.	Saya tertarik mempelajari berbagai hal mengenai ekonomi					
12.	Saya senang membaca pelajaran atau pengetahuan ekonomi sendiri meski belum diajarkan guru					
13.	Saya menyelesaikan semua tugas ekonomi yang ada dalam buku sebelum ditugaskan guru					
14.	Saya ingin menjadi pribadi yang lebih baik					
15.	Guru ekonomi saya memberikan pujian terhadap siswa yang aktif dalam pembelajaran ekonomi					
16.	Mempelajari materi pelajaran ekonomi adalah sesuatu yang menarik					
17.	Saya merasa tertarik belajar ekonomi jika dalam pembelajaran di sekolah memanfaatkan teknologi informasi dan komunikasi sebagai media pembelajaran					
18.	Pembelajaran menggunakan LCD dan komputer membuat saya lebih mudah dalam belajar dan membuat saya bersemangat belajar ekonomi					
19.	Saya memiliki banyak referensi berupa <i>E-book</i> dan <i>soft file</i> lainnya mengenai materi pelajaran ekonomi					
20.	Suasana dalam kelas saat mata pelajaran ekonomi lebih kondusif jika pembelajaran memanfaatkan teknologi informasi dan komunikasi					
<b>TOTAL</b>		<b>20</b>				

### Lembar Angket Prestasi Belajar Siswa

No.	Pernyataan	SS	S	KS	TS	STS
1.	Saya selalu mengerjakan tugas dari guru ekonomi dengan sungguh-sungguh					
2.	Saya selalu mengerjakan soal-soal ekonomi yang ada di buku meskipun belum disuruh guru					
3.	Guru memanfaatkan teknologi informasi dan komunikasi sehingga saya aktif dalam pembelajaran ekonomi					
4.	Guru memanfaatkan teknologi informasi dan komunikasi sehingga saya senang belajar ekonomi dan nilai ekonomi saya baik					
5.	Saya lebih mudah mempelajari ekonomi jika pembelajaran menggunakan media berbasis teknologi informasi dan komunikasi					
6.	Pelajaran ekonomi menyenangkan jika dalam pembelajaran memanfaatkan teknologi informasi dan komunikasi					
7.	Saya lebih mudah mengerti pelajaran ekonomi jika guru menggunakan media pembelajaran berbasis teknologi informasi dan komunikasi					
8.	Saya lebih mudah mengetahui pelajaran ekonomi jika guru menggunakan media pembelajaran visual					
9.	Saya lebih mudah mengetahui pelajaran ekonomi jika guru menggunakan media pembelajaran audio					
10.	Saya lebih mudah mengetahui pelajaran ekonomi jika guru menggunakan media pembelajaran audio visual					
11.	Saya mampu menjelaskan materi pelajaran ekonomi yang telah saya pelajari					
12.	Saya selalu mengumpulkan tugas ekonomi tepat waktu					
13.	Saya mendengarkan dengan baik saat guru menerangkan pelajaran ekonomi karena pelajaran ekonomi mengasyikan jika menggunakan media berbasis TIK					
14.	Saya tidak pernah mencontek saat ujian matapelajaran ekonomi					
15.	Saya sibuk dengan kegiatan saya sendiri saat guru menerangkan pelajaran ekonomi					
16.	Saya mengantuk saat pembelajaran ekonomi					

<b>No.</b>	<b>Pernyataan</b>	<b>SS</b>	<b>S</b>	<b>KS</b>	<b>TS</b>	<b>STS</b>
	karena pembelajaran ekonomi membosankan					
17.	Saya selalu mengemukakan pendapat saya dalam pembelajaran ekonomi					
18.	Saya selalu aktif menjawab pertanyaan dari guru selama pembelajaran ekonomi					
19.	Saya selalu bertanya pada guru ekonomi jika ada yang tidak dimengerti dalam pelajaran ekonomi					
20.	Saya mampu bekerjasama dengan teman saat ada tugas kelompok					
<b>TOTAL</b>		<b>20</b>				

**TERIMAKASIH**  
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# **LAMPIRAN 2:**

## **TABULASI DATA**



TABULASI DATA PEMANFAATAN TIK (X)

No	Butir Soal																				Total X	
	X 01	X 02	X 03	X 04	X 05	X 06	X 07	X 08	X 09	X 10	X 11	X 12	X 13	X 14	X 15	X 16	X 17	X 18	X 19	X 20		X 21
1	3	4	4	2	5	5	5	5	5	4	4	5	5	5	5	5	5	5	4	4	5	94
2	3	5	5	4	4	4	4	4	4	4	4	3	4	4	5	4	4	4	3	4	5	85
3	5	3	4	3	4	4	3	4	4	5	4	3	5	5	3	3	4	4	3	3	3	79
4	2	5	4	3	4	4	4	4	4	3	3	4	4	4	5	5	5	5	3	4	4	83
5	2	2	4	2	4	4	3	4	3	3	3	4	5	4	4	1	4	4	3	2	4	69
6	1	2	5	2	4	5	5	5	5	3	2	3	5	4	4	3	5	5	3	3	5	79
7	1	3	5	2	4	4	4	4	4	4	3	2	4	4	4	3	4	4	3	2	3	71
8	2	1	5	1	5	3	3	4	3	4	1	4	5	4	4	3	5	5	3	2	4	71
9	1	2	5	2	5	2	3	3	3	3	3	3	5	3	4	4	5	5	4	3	5	73
10	1	1	5	2	5	3	3	3	3	4	3	3	4	4	4	3	4	5	3	3	3	69
11	4	4	4	4	4	4	4	4	2	4	4	4	4	4	2	4	4	4	2	4	4	78
12	1	3	5	1	4	4	4	2	4	5	4	4	4	5	5	3	5	5	3	4	5	80
13	5	3	5	1	4	5	4	4	4	3	3	4	4	4	4	3	5	5	3	1	1	75
14	0	1	5	2	5	2	2	4	3	5	5	4	5	4	4	4	5	5	3	3	4	75
15	2	2	4	1	5	4	3	4	4	4	2	4	5	4	4	3	4	4	3	3	4	73
16	1	2	4	2	5	2	3	3	3	3	2	4	4	4	3	3	5	5	3	3	3	67
17	3	4	2	3	5	5	5	5	4	4	4	3	5	3	3	3	4	5	3	3	5	81
18	4	1	4	2	5	2	2	2	2	2	1	4	4	4	2	4	4	4	3	4	4	64
19	4	4	4	2	4	4	5	5	5	5	5	3	3	3	4	3	3	4	3	3	4	80
20	1	3	5	3	5	5	5	5	5	5	5	1	1	1	1	1	1	1	1	1	1	57
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22	1	1	2	3	5	5	4	5	5	5	3	5	5	5	5	3	5	5	2	3	5	82
23	2	2	4	5	4	4	4	5	4	3	3	3	4	5	3	2	5	5	4	4	5	80
24	3	5	1	4	4	5	4	4	4	3	3	4	4	4	3	2	4	4	5	2	5	77
25	3	3	5	5	5	5	5	5	5	3	3	5	5	4	3	3	5	5	3	3	5	88
26	1	2	4	1	4	2	2	2	3	5	4	5	5	4	4	4	5	5	3	3	4	72
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28	3	2	3	2	3	4	4	4	3	4	3	5	3	5	3	4	5	5	4	4	4	77
29	3	2	3	2	3	4	4	4	3	4	3	5	3	5	3	4	5	5	4	4	4	77
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31	2	2	3	2	4	5	5	5	5	4	2	5	4	5	4	2	5	5	3	4	4	80
32	3	2	3	2	5	4	4	3	4	3	4	4	3	4	4	3	4	4	3	4	3	73
33	3	3	3	3	5	4	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4	80
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37	2	3	4	4	5	5	4	4	4	3	4	4	4	4	4	4	5	5	2	4	4	82

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39	2	2	3	2	5	3	3	3	4	4	3	4	4	4	4	3	5	5	4	3	4	74
40	2	2	4	2	5	3	4	4	3	4	2	4	5	4	3	3	4	4	3	4	4	73
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43	4	2	5	2	4	2	2	3	2	4	2	2	4	5	4	2	5	5	2	4	3	68
44	3	2	4	2	4	4	4	2	3	4	3	4	4	4	3	3	4	4	3	4	4	72
45	1	4	4	2	3	2	3	4	2	4	3	3	4	4	3	2	5	5	4	3	4	69
46	1	4	4	4	5	5	4	4	5	4	4	5	5	4	3	4	5	5	4	4	5	88
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48	3	3	4	4	4	4	4	4	4	5	3	5	4	4	4	5	5	5	3	2	5	84
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53	5	3	3	3	5	4	4	4	4	4	3	4	4	4	3	3	4	4	3	4	4	79
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57	3	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	81
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78	2	2	4	2	4	3	3	4	3	4	3	4	4	4	3	4	5	5	3	2	4	72

79	2	3	5	3	4	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	82
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81	2	2	2	2	4	4	4	4	3	4	3	2	3	4	4	3	3	4	2	3	2	64
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91	2	3	4	2	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	83
92	1	3	5	2	5	3	2	3	4	3	2	3	4	5	3	2	5	4	3	4	5	71
93	3	4	4	3	5	5	5	5	4	5	5	4	5	4	4	3	5	5	5	3	4	90
94	3	4	4	4	4	4	3	4	3	4	3	4	4	5	5	3	4	5	3	3	4	80
95	1	3	4	2	4	4	4	5	5	5	3	4	5	5	5	3	5	5	3	3	5	83

### MOTIVASI BELAJAR EKONOMI SISWA (Y1)

No.	Butir Pernyataan																				Total Y1
	Y1 01	Y1 02	Y1 03	Y1 04	Y1 05	Y1 06	Y1 07	Y1 08	Y1 09	Y1 10	Y1 11	Y1 12	Y1 13	Y1 14	Y1 15	Y1 16	Y1 17	Y1 18	Y1 19	Y1 20	
1	5	5	3	4	3	5	5	5	4	4	4	3	3	5	4	4	4	4	3	3	80
2	4	5	4	5	4	5	4	4	4	4	5	4	3	5	4	3	4	4	3	3	81
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4	4	5	4	5	4	5	5	4	4	4	5	5	3	5	5	5	5	5	3	3	88
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TABULASI DATA PRESTASI BELAJAR EKONOMI SISWA (Y2)

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86	3	2	3	4	4	3	3	3	3	3	3	3	3	4	2	2	2	3	2	3	58
87	4	3	5	5	5	5	5	5	5	5	3	4	4	5	5	3	4	3	5	4	87
88	3	3	4	4	3	4	3	4	4	4	4	3	4	4	2	3	3	3	3	5	70
89	3	3	4	4	3	4	3	4	4	4	4	3	4	4	2	3	3	3	3	5	70
90	3	4	3	3	3	3	3	3	3	4	3	3	2	4	2	1	3	2	2	4	58
91	5	5	5	4	3	3	3	3	4	4	4	4	1	4	5	2	3	3	5	5	75
92	5	4	5	5	4	4	4	3	4	4	5	4	4	5	1	1	5	3	2	5	77
93	3	3	3	4	5	4	5	4	4	5	3	3	4	3	2	2	4	4	4	4	73
94	3	3	3	4	4	4	4	4	4	4	3	4	3	3	3	2	3	3	3	5	69
95	2	2	5	3	4	4	4	5	5	5	4	4	2	3	2	1	2	1	4	5	67



# **LAMPIRAN 3:**

## **UJI VALIDITAS DAN RELIABILITAS**

## VALIDITAS X

Correlations

		X01	X02	X03	X04	X05	X06	X07	X08	X09	X10	X11	X12	X13	X14	X15	X16	X17	X18	X19	X20	X21	TOTAL
X01	Pearson Correlation	1	.312**	.003	.316**	-.213*	.144	-.078	.043	.200	-.122	.229*	.116	.025	.097	-.066	.029	-.074	-.065	-.016	-.058	-.123	.318**
	Sig. (2-tailed)		.002	.981	.002	.038	.163	.455	.678	.052	.237	.025	.264	.811	.350	.528	.777	.476	.534	.879	.577	.234	.002
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
X02	Pearson Correlation	.312**	1	.165	.468**	-.210*	.283**	.305**	.137	.367**	-.006	.381**	-.050	-.110	-.032	-.003	.098	-.117	-.132	.000	.112	-.031	.483**
	Sig. (2-tailed)	.002		.110	.000	.041	.005	.003	.185	.000	.957	.000	.628	.288	.759	.973	.346	.260	.202	.997	.280	.767	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
X03	Pearson Correlation	.003	.165	1	.002	.055	.094	-.054	.056	-.037	.071	.087	-.102	.022	.011	.012	-.018	.088	.041	.121	.002	-.131	.173
	Sig. (2-tailed)	.981	.110		.982	.595	.363	.604	.592	.721	.492	.402	.327	.836	.916	.904	.860	.395	.690	.244	.985	.206	.094
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
X04	Pearson Correlation	.316**	.468**	.002	1	-.008	.227*	.230*	.237*	.387**	-.033	.269**	.041	-.059	-.046	-.058	.125	-.064	-.064	.040	.179	.171	.495**

	Sig. (2-tailed)	.002	.000	.982		.937	.027	.025	.021	.000	.748	.008	.695	.573	.657	.574	.226	.535	.538	.700	.083	.098	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
X05	Pearson Correlation	-.213*	-.210*	.055	-.008	1	.275**	.242*	.264**	.028	.154	.009	-.020	.157	-.115	-.002	-.002	.019	.089	-.048	.012	.220*	.129
	Sig. (2-tailed)	.038	.041	.595	.937		.007	.018	.010	.791	.137	.932	.847	.127	.269	.983	.987	.851	.392	.642	.908	.032	.211
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
X06	Pearson Correlation	.144	.283**	.094	.227*	.275**	1	.642**	.505**	.465**	.183	.472**	.136	-.060	.100	.161	.040	-.065	.013	.246*	.014	.156	.615**
	Sig. (2-tailed)	.163	.005	.363	.027	.007		.000	.000	.000	.076	.000	.188	.564	.337	.118	.703	.533	.902	.016	.893	.132	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
X07	Pearson Correlation	-.078	.305**	-.054	.230*	.242*	.642**	1	.546**	.302**	.203*	.360**	.052	-.083	-.139	.091	.232*	-.111	-.012	.094	.246*	.133	.523**
	Sig. (2-tailed)	.455	.003	.604	.025	.018	.000		.000	.003	.048	.000	.619	.422	.179	.380	.024	.284	.908	.364	.016	.200	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
X08	Pearson Correlation	.043	.137	.056	.237*	.264**	.505**	.546**	1	.174	.180	.292**	-.069	-.025	-.096	.036	.033	.007	.110	.120	.182	.170	.462**

	Sig. (2-tailed)	.678	.185	.592	.021	.010	.000	.000		.091	.080	.004	.509	.813	.353	.730	.753	.947	.287	.246	.078	.099	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
X09	Pearson Correlation	.200	.367**	-.037	.387**	.028	.465**	.302**	.174	1	.070	.432**	.042	-.045	-.114	.040	-.107	-.112	-.121	.019	-.185	.096	.412**
	Sig. (2-tailed)	.052	.000	.721	.000	.791	.000	.003	.091		.499	.000	.689	.664	.272	.697	.303	.278	.242	.855	.073	.353	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
X10	Pearson Correlation	-.122	-.006	.071	-.033	.154	.183	.203*	.180	.070	1	.282**	.123	.093	.002	.038	.059	-.072	-.015	-.109	-.063	.073	.196
	Sig. (2-tailed)	.237	.957	.492	.748	.137	.076	.048	.080	.499		.006	.235	.368	.985	.714	.568	.490	.885	.292	.547	.480	.058
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
X11	Pearson Correlation	.229*	.381**	.087	.269**	.009	.472**	.360**	.292**	.432**	.282**	1	-.054	-.113	-.095	.118	.018	-.189	-.135	.076	-.014	.025	.489**
	Sig. (2-tailed)	.025	.000	.402	.008	.932	.000	.000	.004	.000	.006		.606	.278	.360	.253	.861	.067	.194	.461	.891	.806	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
X12	Pearson Correlation	.116	-.050	-.102	.041	-.020	.136	.052	-.069	.042	.123	-.054	1	.462**	.562**	.314**	.448**	.604**	.536**	.366**	.274**	.401**	.486**

	Sig. (2-tailed)	.264	.628	.327	.695	.847	.188	.619	.509	.689	.235	.606		.000	.000	.002	.000	.000	.000	.000	.007	.000	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
X13	Pearson Correlation	.025	-.110	.022	-.059	.157	-.060	-.083	-.025	-.045	.093	-.113	.462**	1	.502**	.366**	.204*	.638**	.598**	.227*	.114	.380**	.342**
	Sig. (2-tailed)	.811	.288	.836	.573	.127	.564	.422	.813	.664	.368	.278	.000		.000	.000	.048	.000	.000	.027	.271	.000	.001
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
X14	Pearson Correlation	.097	-.032	.011	-.046	-.115	.100	-.139	-.096	-.114	.002	-.095	.562**	.502**	1	.556**	.367**	.672**	.624**	.413**	.353**	.363**	.444**
	Sig. (2-tailed)	.350	.759	.916	.657	.269	.337	.179	.353	.272	.985	.360	.000	.000		.000	.000	.000	.000	.000	.000	.000	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
X15	Pearson Correlation	-.066	-.003	.012	-.058	-.002	.161	.091	.036	.040	.038	.118	.314**	.366**	.556**	1	.413**	.451**	.487**	.379**	.301**	.253*	.458**
	Sig. (2-tailed)	.528	.973	.904	.574	.983	.118	.380	.730	.697	.714	.253	.002	.000	.000		.000	.000	.000	.000	.003	.013	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
X16	Pearson Correlation	.029	.098	-.018	.125	-.002	.040	.232*	.033	-.107	.059	.018	.448**	.204*	.367**	.413**	1	.298**	.297**	.275**	.504**	.178	.471**

	Sig. (2-tailed)	.777	.346	.860	.226	.987	.703	.024	.753	.303	.568	.861	.000	.048	.000	.000		.003	.003	.007	.000	.084	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
X17	Pearson Correlation	-.074	-.117	.088	-.064	.019	-.065	-.111	.007	-.112	-.072	-.189	.604**	.638**	.672**	.451**	.298**	1	.939**	.448**	.283**	.503**	.414**
	Sig. (2-tailed)	.476	.260	.395	.535	.851	.533	.284	.947	.278	.490	.067	.000	.000	.000	.000	.003		.000	.000	.005	.000	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
X18	Pearson Correlation	-.065	-.132	.041	-.064	.089	.013	-.012	.110	-.121	-.015	-.135	.536**	.598**	.624**	.487**	.297**	.939**	1	.430**	.289**	.539**	.449**
	Sig. (2-tailed)	.534	.202	.690	.538	.392	.902	.908	.287	.242	.885	.194	.000	.000	.000	.000	.003	.000		.000	.005	.000	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
X19	Pearson Correlation	-.016	.000	.121	.040	-.048	.246*	.094	.120	.019	-.109	.076	.366**	.227*	.413**	.379**	.275**	.448**	.430**	1	.270**	.323**	.465**
	Sig. (2-tailed)	.879	.997	.244	.700	.642	.016	.364	.246	.855	.292	.461	.000	.027	.000	.000	.007	.000	.000		.008	.001	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
X20	Pearson Correlation	-.058	.112	.002	.179	.012	.014	.246*	.182	-.185	-.063	-.014	.274**	.114	.353**	.301**	.504**	.283**	.289**	.270**	1	.443**	.455**

	Sig. (2-tailed)	.577	.280	.985	.083	.908	.893	.016	.078	.073	.547	.891	.007	.271	.000	.003	.000	.005	.005	.008		.000	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
X21	Pearson Correlation	-.123	-.031	-.131	.171	.220*	.156	.133	.170	.096	.073	.025	.401**	.380**	.363**	.253*	.178	.503**	.539**	.323**	.443**	1	.486**
	Sig. (2-tailed)	.234	.767	.206	.098	.032	.132	.200	.099	.353	.480	.806	.000	.000	.000	.013	.084	.000	.000	.001	.000		.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
TOTAL	Pearson Correlation	.318**	.483**	.173	.495**	.129	.615**	.523**	.462**	.412**	.196	.489**	.486**	.342**	.444**	.458**	.471**	.414**	.449**	.465**	.455**	.486**	1
	Sig. (2-tailed)	.002	.000	.094	.000	.211	.000	.000	.000	.000	.058	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95

\*\* . Correlation is significant at the 0.01 level (2-tailed).

\* . Correlation is significant at the 0.05 level (2-tailed).

## VALIDITAS Y1

Correlations

		Y01	Y02	Y03	Y04	Y05	Y06	Y07	Y08	Y09	Y10	Y11	Y12	Y13	Y14	Y15	Y16	Y17	Y18	Y19	Y20	TOTAL
Y01	Pearson Correlation	1	-.092	.194	.308**	.119	-.090	.028	-.119	.041	.074	.182	.127	.189	-.140	.341**	.241*	.354**	.513**	.294**	.234*	.467**
	Sig. (2-tailed)		.375	.060	.002	.252	.383	.785	.250	.697	.476	.078	.220	.067	.175	.001	.019	.000	.000	.004	.022	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Y02	Pearson Correlation	-.092	1	.010	.009	.055	.227*	.106	.141	.043	.064	.200	.088	-.174	.380**	-.141	.069	.133	-.061	-.201	.010	.059
	Sig. (2-tailed)	.375		.921	.934	.594	.027	.308	.172	.681	.538	.052	.395	.093	.000	.172	.508	.199	.554	.051	.922	.573
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Y03	Pearson Correlation	.194	.010	1	.476**	.341**	.090	.287**	-.029	.384**	.521**	.441**	.524**	.455**	-.001	.071	.413**	.400**	.334**	.258*	.184	.643**
	Sig. (2-tailed)	.060	.921		.000	.001	.384	.005	.780	.000	.000	.000	.000	.000	.990	.496	.000	.000	.001	.012	.074	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Y04	Pearson Correlation	.308**	.009	.476**	1	.461**	.093	.323**	-.126	.221*	.237*	.262*	.184	.287**	-.035	.460**	.061	.109	.228*	.101	.122	.483**



	Sig. (2-tailed)	.002	.934	.000		.000	.369	.001	.222	.031	.021	.010	.075	.005	.737	.000	.557	.291	.026	.332	.240	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Y05	Pearson Correlation	.119	.055	.341**	.461**	1	.223*	.395**	-.038	.231*	.181	.148	.163	.350**	-.021	.254*	.126	.287**	.268**	.132	.204*	.472**
	Sig. (2-tailed)	.252	.594	.001	.000		.030	.000	.718	.024	.079	.154	.115	.001	.839	.013	.225	.005	.009	.203	.047	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Y06	Pearson Correlation	-.090	.227*	.090	.093	.223*	1	.449**	.085	.152	.109	.109	.120	-.028	.250*	.006	.094	.148	.063	-.114	-.013	.176
	Sig. (2-tailed)	.383	.027	.384	.369	.030		.000	.415	.141	.292	.293	.246	.785	.015	.951	.363	.152	.547	.273	.903	.089
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Y07	Pearson Correlation	.028	.106	.287**	.323**	.395**	.449**	1	-.029	.305**	.267**	.131	.250*	.349**	.046	.173	.129	.188	.236*	.068	.121	.421**
	Sig. (2-tailed)	.785	.308	.005	.001	.000	.000		.778	.003	.009	.207	.015	.001	.661	.094	.213	.068	.021	.515	.244	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Y08	Pearson Correlation	-.119	.141	-.029	-.126	-.038	.085	-.029	1	.046	.025	.060	-.017	-.140	.151	-.196	-.038	-.046	-.132	.013	-.139	-.020

	Sig. (2-tailed)	.250	.172	.780	.222	.718	.415	.778		.659	.807	.561	.869	.175	.143	.057	.711	.657	.201	.899	.178	.845
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Y09	Pearson Correlation	.041	.043	.384**	.221*	.231*	.152	.305**	.046	1	.725**	.503**	.459**	.477**	-.053	-.002	.541**	.338**	.330**	.368**	.057	.619**
	Sig. (2-tailed)	.697	.681	.000	.031	.024	.141	.003	.659		.000	.000	.000	.000	.611	.986	.000	.001	.001	.000	.581	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Y10	Pearson Correlation	.074	.064	.521**	.237*	.181	.109	.267**	.025	.725**	1	.603**	.457**	.512**	-.051	.033	.586**	.382**	.264**	.261*	.164	.651**
	Sig. (2-tailed)	.476	.538	.000	.021	.079	.292	.009	.807	.000		.000	.000	.000	.624	.753	.000	.000	.010	.011	.112	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Y11	Pearson Correlation	.182	.200	.441**	.262*	.148	.109	.131	.060	.503**	.603**	1	.684**	.363**	-.036	.084	.679**	.452**	.270**	.213*	.272**	.668**
	Sig. (2-tailed)	.078	.052	.000	.010	.154	.293	.207	.561	.000	.000		.000	.000	.731	.419	.000	.000	.008	.039	.008	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Y12	Pearson Correlation	.127	.088	.524**	.184	.163	.120	.250*	-.017	.459**	.457**	.684**	1	.546**	-.055	-.035	.567**	.507**	.275**	.325**	.240*	.659**

	Sig. (2-tailed)	.220	.395	.000	.075	.115	.246	.015	.869	.000	.000	.000		.000	.595	.736	.000	.000	.007	.001	.019	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Y13	Pearson Correlation	.189	-.174	.455**	.287**	.350**	-.028	.349**	-.140	.477**	.512**	.363**	.546**	1	-.226*	.154	.527**	.353**	.321**	.412**	.335**	.689**
	Sig. (2-tailed)	.067	.093	.000	.005	.001	.785	.001	.175	.000	.000	.000	.000		.027	.137	.000	.000	.002	.000	.001	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Y14	Pearson Correlation	-.140	.380**	-.001	-.035	-.021	.250*	.046	.151	-.053	-.051	-.036	-.055	-.226*	1	-.198	-.010	.059	-.069	-.205*	-.127	-.073
	Sig. (2-tailed)	.175	.000	.990	.737	.839	.015	.661	.143	.611	.624	.731	.595	.027		.054	.927	.567	.509	.046	.221	.483
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Y15	Pearson Correlation	.341**	-.141	.071	.460**	.254*	.006	.173	-.196	-.002	.033	.084	-.035	.154	-.198	1	.052	.148	.272**	.295**	.344**	.403**
	Sig. (2-tailed)	.001	.172	.496	.000	.013	.951	.094	.057	.986	.753	.419	.736	.137	.054		.617	.151	.008	.004	.001	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Y16	Pearson Correlation	.241*	.069	.413**	.061	.126	.094	.129	-.038	.541**	.586**	.679**	.567**	.527**	-.010	.052	1	.664**	.481**	.311**	.279**	.719**

	Sig. (2-tailed)	.019	.508	.000	.557	.225	.363	.213	.711	.000	.000	.000	.000	.000	.927	.617		.000	.000	.002	.006	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Y17	Pearson Correlation	.354**	.133	.400**	.109	.287**	.148	.188	-.046	.338**	.382**	.452**	.507**	.353**	.059	.148	.664**	1	.555**	.127	.455**	.692**
	Sig. (2-tailed)	.000	.199	.000	.291	.005	.152	.068	.657	.001	.000	.000	.000	.000	.567	.151	.000		.000	.219	.000	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Y18	Pearson Correlation	.513**	-.061	.334**	.228*	.268**	.063	.236*	-.132	.330**	.264**	.270**	.275**	.321**	-.069	.272**	.481**	.555**	1	.255*	.475**	.664**
	Sig. (2-tailed)	.000	.554	.001	.026	.009	.547	.021	.201	.001	.010	.008	.007	.002	.509	.008	.000	.000		.013	.000	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Y19	Pearson Correlation	.294**	-.201	.258*	.101	.132	-.114	.068	.013	.368**	.261*	.213*	.325**	.412**	-.205*	.295**	.311**	.127	.255*	1	.125	.498**
	Sig. (2-tailed)	.004	.051	.012	.332	.203	.273	.515	.899	.000	.011	.039	.001	.000	.046	.004	.002	.219	.013		.226	.000
	N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Y20	Pearson Correlation	.234*	.010	.184	.122	.204*	-.013	.121	-.139	.057	.164	.272**	.240*	.335**	-.127	.344**	.279**	.455**	.475**	.125	1	.531**

Sig. (2-tailed)		.022	.922	.074	.240	.047	.903	.244	.178	.581	.112	.008	.019	.001	.221	.001	.006	.000	.000	.226		.000
N		95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
TOTAL Pearson Correlation		.467**	.059	.643**	.483**	.472**	.176	.421**	-.020	.619**	.651**	.668**	.659**	.689**	-.073	.403**	.719**	.692**	.664**	.498**	.531**	1
Sig. (2-tailed)		.000	.573	.000	.000	.000	.089	.000	.845	.000	.000	.000	.000	.000	.483	.000	.000	.000	.000	.000	.000	
N		95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95

\*\* . Correlation is significant at the 0.01 level (2-tailed).

\* . Correlation is significant at the 0.05 level (2-tailed).

## VALIDITAS Y2

Correlations

	Y2001	Y2002	Y2003	Y2004	Y2005	Y2006	Y2007	Y2008	Y2009	Y2010	Y2011	Y2012	Y2013	Y2014	Y2015	Y2016	Y2017	Y2018	Y2019	Y2020	TOTAL
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	L
Y2001 Pearson Correlation	1	.557**	.489**	.587**	.426**	.469**	.431**	.130	.176	-.172	.260*	.498**	.464**	.276**	.297**	.268**	.537**	.579**	.500**	.105	.714**
Sig. (2-tailed)		.000	.000	.000	.000	.000	.000	.209	.089	.096	.011	.000	.000	.007	.003	.009	.000	.000	.000	.311	.000

[illegible]











Y2019 Pearson Correlation	.500**	.337**	.411**	.478**	.405**	.404**	.398**	.234*	.187	-.133	.310**	.535**	.458**	.293**	.394**	.210*	.459**	.551**	1	.317**	.710**
Sig. (2-tailed)	.000	.001	.000	.000	.000	.000	.000	.023	.069	.200	.002	.000	.000	.004	.000	.041	.000	.000		.002	.000
N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Y2020 Pearson Correlation	.105	.115	.216*	.136	.206*	.266**	.099	.077	.126	.072	.385**	.256*	.128	.452**	.062	-.072	.135	.290**	.317**	1	.391**
Sig. (2-tailed)	.311	.266	.035	.189	.045	.009	.338	.456	.225	.490	.000	.012	.216	.000	.553	.488	.193	.004	.002		.000
N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
TOTAL Pearson Correlation	.714**	.602**	.684**	.772**	.728**	.735**	.652**	.388**	.450**	.004	.463**	.653**	.661**	.314**	.446**	.380**	.606**	.659**	.710**	.391**	1
Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	.000	.000	.000	.969	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	
N	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95

\*\* . Correlation is significant at the 0.01 level (2-tailed).

\* . Correlation is significant at the 0.05 level (2-tailed).

## Variabel X

```
RELIABILITY /VARIABLES=X001 X002 X004 X006 X007 X008 X009 X011
X012 X013 X014 X015 X016 X017 X018 X019 X020 X021
/SCALE('ALL VARIABLES') ALL /MODEL=ALPHA.
```

## Reliability

[DataSet0] G:\OLAH DATA\St1 Validts.sav

## Scale: ALL VARIABLES

**Case Processing Summary**

		N	%
Cases	Valid	95	100.0
	Excluded <sup>a</sup>	0	.0
	Total	95	100.0

a. Listwise deletion based on all variables in the procedure.

**Reliability Statistics**

Cronbach's Alpha	N of Items
.766	18

## Variabel Y1

```
RELIABILITY   /VARIABLES=Y1001 Y1003 Y1004 Y1005 Y1007 Y1009 Y1010
Y1011 Y1012 Y1013 Y1015 Y1016 Y1017 Y1018 Y1019 Y1020
/SCALE('ALL VARIABLES') ALL    /MODEL=ALPHA.
```

## Reliability

[DataSet0] G:\OLAH DATA\Y1\y1 sb1m vldts.sav

## Scale: ALL VARIABLES

**Case Processing Summary**

		N	%
Cases	Valid	95	100.0
	Excluded <sup>a</sup>	0	.0
	Total	95	100.0

a. Listwise deletion based on all variables in the procedure.

**Reliability Statistics**

Cronbach's Alpha	N of Items
.861	16

## Variabel Y2

## Reliability

[DataSet1] G:\OLAH DATA\y2 stl vldts.sav

## Scale: ALL VARIABLES

**Case Processing Summary**

		N	%
Cases	Valid	95	100.0
	Excluded <sup>a</sup>	0	.0
	Total	95	100.0

a. Listwise deletion based on all variables in the procedure.

**Reliability Statistics**

Cronbach's Alpha	N of Items
.885	19

**LAMPIRAN 4:**  
**DISTRIBUSI FREKUENSI**  
**DAN KATEGORISASI**

```
FREQUENCIES VARIABLES=X Y1 Y2 /STATISTICS=STDDEV MINIMUM MAXIMUM
MEAN MEDIAN MODE /PIECHART PERCENT /ORDER=ANALYSIS.
```

## Frequencies

[DataSet0]

		Statistics		
		X	Y1	Y2
N	Valid	95	95	95
	Missing	0	0	0
Mean		66.5789	53.8737	62.9895
Median		66.0000	54.0000	64.0000
Mode		66.00 <sup>a</sup>	57.00	66.00 <sup>a</sup>
Std. Deviation		7.44994	8.06126	9.28336
Minimum		46.00	23.00	32.00
Maximum		82.00	74.00	82.00

a. Multiple modes exist. The smallest value is shown

## Frequency Table

		X			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	46.00	1	1.1	1.1	1.1
	50.00	1	1.1	1.1	2.1
	51.00	1	1.1	1.1	3.2
	55.00	4	4.2	4.2	7.4
	56.00	2	2.1	2.1	9.5
	57.00	3	3.2	3.2	12.6
	58.00	1	1.1	1.1	13.7
	59.00	4	4.2	4.2	17.9
	60.00	3	3.2	3.2	21.1
	61.00	5	5.3	5.3	26.3



X

	Frequency	Percent	Valid Percent	Cumulative Percent
62.00	6	6.3	6.3	32.6
63.00	2	2.1	2.1	34.7
64.00	6	6.3	6.3	41.1
65.00	2	2.1	2.1	43.2
66.00	7	7.4	7.4	50.5
68.00	4	4.2	4.2	54.7
69.00	5	5.3	5.3	60.0
70.00	6	6.3	6.3	66.3
71.00	7	7.4	7.4	73.7
72.00	5	5.3	5.3	78.9
73.00	3	3.2	3.2	82.1
74.00	2	2.1	2.1	84.2
75.00	3	3.2	3.2	87.4
76.00	4	4.2	4.2	91.6
77.00	1	1.1	1.1	92.6
78.00	4	4.2	4.2	96.8
79.00	1	1.1	1.1	97.9
82.00	2	2.1	2.1	100.0
Total	95	100.0	100.0	

Y1

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 46.00	1	1.1	1.1	1.1
50.00	1	1.1	1.1	2.1
51.00	1	1.1	1.1	3.2
55.00	4	4.2	4.2	7.4

## Y1

	Frequency	Percent	Valid Percent	Cumulative Percent
56.00	2	2.1	2.1	9.5
57.00	3	3.2	3.2	12.6
58.00	1	1.1	1.1	13.7
59.00	4	4.2	4.2	17.9
60.00	3	3.2	3.2	21.1
61.00	5	5.3	5.3	26.3
62.00	6	6.3	6.3	32.6
63.00	2	2.1	2.1	34.7
64.00	6	6.3	6.3	41.1
65.00	2	2.1	2.1	43.2
66.00	7	7.4	7.4	50.5
68.00	4	4.2	4.2	54.7
69.00	5	5.3	5.3	60.0
70.00	6	6.3	6.3	66.3
71.00	7	7.4	7.4	73.7
72.00	5	5.3	5.3	78.9
73.00	3	3.2	3.2	82.1
74.00	2	2.1	2.1	84.2
75.00	3	3.2	3.2	87.4
76.00	4	4.2	4.2	91.6
77.00	1	1.1	1.1	92.6
78.00	4	4.2	4.2	96.8
79.00	1	1.1	1.1	97.9
82.00	2	2.1	2.1	100.0
Total	95	100.0	100.0	

## Y2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	32.00	1	1.1	1.1	1.1
	33.00	2	2.1	2.1	3.2
	47.00	1	1.1	1.1	4.2
	48.00	2	2.1	2.1	6.3
	49.00	1	1.1	1.1	7.4
	51.00	1	1.1	1.1	8.4
	53.00	3	3.2	3.2	11.6
	54.00	2	2.1	2.1	13.7
	55.00	3	3.2	3.2	16.8
	56.00	2	2.1	2.1	18.9
	57.00	5	5.3	5.3	24.2
	58.00	2	2.1	2.1	26.3
	59.00	4	4.2	4.2	30.5
	60.00	5	5.3	5.3	35.8
	61.00	5	5.3	5.3	41.1
	62.00	2	2.1	2.1	43.2
	63.00	4	4.2	4.2	47.4
	64.00	5	5.3	5.3	52.6
	65.00	5	5.3	5.3	57.9
	66.00	6	6.3	6.3	64.2
	67.00	3	3.2	3.2	67.4
	68.00	6	6.3	6.3	73.7
	69.00	2	2.1	2.1	75.8
	70.00	3	3.2	3.2	78.9
	71.00	5	5.3	5.3	84.2
	72.00	2	2.1	2.1	86.3
	73.00	3	3.2	3.2	89.5

Y2				
	Frequency	Percent	Valid Percent	Cumulative Percent
74.00	4	4.2	4.2	93.7
75.00	1	1.1	1.1	94.7
76.00	1	1.1	1.1	95.8
77.00	1	1.1	1.1	96.8
78.00	1	1.1	1.1	97.9
81.00	1	1.1	1.1	98.9
82.00	1	1.1	1.1	100.0
Total	95	100.0	100.0	

## DISTRIBUSI FREKUENSI DAN KATEGORISASI

### A. Menghitung Kelas Interval

Jumlah kelas interval dihitung dengan rumus Sturges yaitu:

$$K = 1 + 3,3 \log n$$

Keterangan:

K = jumlah interval kelas

N = jumlah data observer

Log = logaritma

maka,

$$K = 1 + 3,3 \log 95$$

$$K = 7,53$$

Jadi jumlah kelas interval dibulatkan menjadi 8.

## **B. Menghitung Rentang Kelas dan Panjang Kelas**

Rumus rentang kelas (R) = (skor maksimum-skor minimum)+1

### **1. Pemanfaatan Teknologi Informasi dan Komunikasi**

$$R = (82-46)+1$$

$$R = 37$$

Panjang Kelas (P) = rentang: banyak kelas

$$P = 37 : 8$$

$$P = 4,625 \text{ (dibulatkan menjadi 5)}$$

### **2. Motivasi Belajar Ekonomi Siswa**

$$R = (74-23)+1$$

$$R = 52$$

Panjang Kelas (P) = rentang: banyak kelas

$$P = 52 : 8$$

$$P = 6,5 \text{ (dibulatkan menjadi 7)}$$

### **3. Prestasi Belajar**

$$R = (82-32)+1$$

$$R = 51$$

Panjang Kelas (P) = rentang: banyak kelas

$$P = 51 : 8$$

$$P = 6,375 \text{ (dibulatkan menjadi 7)}$$

## **C. Menghitung Kecenderungan Distribusi Frekuensi**

Mean Ideal ( $M_i$ ) =  $1/2$  (skor tertinggi + skor terendah)

$$M_i = 1/2 ( 82 + 32 ) = 57$$

SD ideal ( $SD_i$ ) =  $1/6$  (skor tertinggi – skor terendah)

$$SD \text{ ideal } (SD_i) = 1/6 ( 82 - 32 ) = 8,3$$

Pengkategorian variasi nilai tersebut adalah sebagai berikut:

1. Kelompok sangat tinggi =  $X \geq M_i + 1,5 SD_i$
2. Kelompok tinggi =  $M_i + 0,5 SD_i \leq X < M_i + 1,5 SD_i$
3. Kelompok cukup =  $M_i - 0,5 SD_i \leq X < M_i + 0,5 SD_i$
4. Kelompok rendah =  $M_i - 1,5 SD_i \leq X < M_i - 0,5 SD_i$
5. Kelompok sangat rendah =  $X < (M_i - 1,5 SD_i)$

Pengkategorian variasi nilai tiap variabel:

### **1. Pemanfaatan Teknologi Informasi dan Komunikasi (TIK)**

Mean Ideal ( $M_i$ ) =  $1/2$  (skor tertinggi + skor terendah)

$$M_i = 1/2 (82 + 46) = 64$$

SD ideal ( $SD_i$ ) =  $1/6$  (skor tertinggi – skor terendah)

$$SD \text{ ideal } (SD_i) = 1/6 (82 - 46) = 6$$

### **2. Motivasi Belajar Ekonomi Siswa**

Mean Ideal ( $M_i$ ) =  $1/2$  (skor tertinggi + skor terendah)

$$M_i = 1/2 (74 + 23) = 48,5$$

SD ideal ( $SD_i$ ) =  $1/6$  (skor tertinggi – skor terendah)

$$SD \text{ ideal } (SD_i) = 1/6 (74 - 23) = 8,5$$

### **3. Prestasi Belajar Ekonomi Siswa**

Mean Ideal ( $M_i$ ) =  $1/2$  (skor tertinggi + skor terendah)

$$M_i = 1/2 (82 + 32) = 57$$

SD ideal ( $SD_i$ ) =  $1/6$  (skor tertinggi – skor terendah)

$$SD \text{ ideal } (SD_i) = 1/6 (82 - 32) = 8,3$$

# **LAMPIRAN 5:**

## **UJI PRASYARAT ANALISIS**

## UJI LINEARITAS

MEANS TABLES=Y1 Y2 BY X /CELLS MEAN COUNT STDDEV /STATISTICS  
LINEARITY.

### Means

[DataSet0]

### Motivasi Belajar Siswa Prestasi Belajar Siswa\* Pemanfaatan TIK

ANOVA Table

		Sum of Squares	df	Mean Square	F	Sig.
Y1 * X	Between Groups	69.804	80	.873	1.323	.393
	Linearity	22.840	1	22.840	34.625	.001
	Deviation from Linearity	46.964	79	.594	.901	.636
	Within Groups	3.958	6	.660		
	Total	73.762	86			
Y2 * X	Between Groups	4763.437	80	59.543	1.709	.259
	Linearity	1315.339	1	1315.339	37.761	.001
	Deviation from Linearity	3448.097	79	43.647	1.253	.426
	Within Groups	209.000	6	34.833		
	Total	4972.437	86			



## UJI NORMALITAS

```
GET FILE='H:\OLAH DATA\UC01\input deskripsi data uco.sav'. NPAR
TESTS /K-S(NORMAL)=X Y1 Y2 /MISSING ANALYSIS.
```

## NPar Tests

[DataSet1] H:\OLAH DATA\UC01\input deskripsi data uco.sav

### One-Sample Kolmogorov-Smirnov Test

		X	Y1	Y2
N		87	87	87
Normal Parameters <sup>a,b</sup>	Mean	9.6700	8.2697	63.9195
	Std. Deviation	.95307	.92612	7.60388
Most Extreme Differences	Absolute	.103	.050	.045
	Positive	.039	.032	.040
	Negative	-.103	-.050	-.045
Kolmogorov-Smirnov Z		.964	.464	.416
Asymp. Sig. (2-tailed)		.311	.983	.995

a. Test distribution is Normal.

b. Calculated from data.

### Assessment of normality (Group number 1)

Variable	min	max	skew	c.r.	kurtosis	c.r.
X	51.000	82.000	-.007	-.025	-.655	-1.261
Y1	4.919	10.089	-.466	-1.795	.263	.507
Y2	33.000	82.000	-.540	-2.079	1.105	2.128
Multivariate					1.053	.907

## Analisis dengan AMOS

### Analysis Summary

#### Date and Time

Date: Sunday, March 11, 2012

Time: 6:11:55 AM

#### Title

output amos lg: Sunday, March 11, 2012 6:11 AM

#### Notes for Group (Group number 1)

The model is recursive.

Sample size = 95

#### Variable Summary (Group number 1)

##### Your model contains the following variables (Group number 1)

Observed, endogenous variables

Y2

Y1

Observed, exogenous variables

X

Unobserved, exogenous variables

error 2

error 1

#### Variable counts (Group number 1)

Number of variables in your model: 5

Number of observed variables: 3

Number of unobserved variables: 2

Number of exogenous variables: 3

Number of endogenous variables: 2

#### Parameter summary (Group number 1)

	Weights	Covariances	Variances	Means	Intercepts	Total
Fixed	2	0	0	0	0	2
Labeled	0	0	0	0	0	0

	Weights	Covariances	Variances	Means	Intercepts	Total
Unlabeled	3	0	3	0	0	6
Total	5	0	3	0	0	8

**Observations farthest from the centroid (Mahalanobis distance) (Group number 1)**

Observation number	Mahalanobis d-squared	p1	p2
69	24.164	.000	.002
73	17.357	.001	.000
72	14.049	.003	.000
50	13.289	.004	.000
56	11.162	.011	.001
82	10.568	.014	.000
65	9.191	.027	.004
89	6.354	.096	.563
43	5.309	.151	.921
87	5.025	.170	.945
71	4.983	.173	.915
60	4.834	.184	.912
14	3.801	.284	.999
80	3.723	.293	.999
58	3.701	.296	.999
64	3.341	.342	1.000
12	3.310	.346	1.000
92	3.270	.352	1.000
1	3.232	.357	.999
10	3.107	.375	1.000
84	3.062	.382	.999
62	2.907	.406	1.000
16	2.839	.417	1.000
46	2.829	.419	.999
18	2.750	.432	1.000
70	2.704	.440	.999
68	2.670	.445	.999
4	2.667	.446	.998
17	2.654	.448	.997
42	2.650	.449	.994
35	2.470	.481	.998
76	2.388	.496	.999
11	2.348	.503	.998
95	2.239	.524	.999
25	2.201	.532	.999

Observation number	Mahalanobis d-squared	p1	p2
6	2.168	.538	.999
66	2.123	.547	.999
26	2.070	.558	.999
93	2.008	.571	.999
67	1.966	.579	.999
30	1.938	.585	.998
36	1.903	.593	.998
79	1.898	.594	.996
31	1.865	.601	.995
15	1.848	.605	.993
40	1.787	.618	.994
8	1.776	.620	.991
81	1.758	.624	.988
59	1.728	.631	.986
48	1.708	.635	.981
63	1.674	.643	.978
52	1.509	.680	.995
88	1.501	.682	.993
2	1.439	.696	.994
7	1.438	.697	.990
19	1.428	.699	.985
83	1.420	.701	.977
55	1.401	.705	.970
90	1.382	.710	.961
24	1.381	.710	.940
27	1.344	.719	.936
21	1.300	.729	.938
78	1.287	.732	.917
32	1.252	.741	.912
49	1.114	.774	.972
86	1.090	.780	.966
91	1.086	.780	.947
37	1.015	.798	.965
47	.979	.806	.963
29	.971	.808	.946
85	.959	.811	.924
38	.954	.812	.888
13	.952	.813	.837
57	.940	.816	.790
77	.872	.832	.836

Observation number	Mahalanobis d-squared	p1	p2
45	.758	.860	.931
33	.750	.861	.897
53	.748	.862	.842
9	.745	.863	.772
5	.720	.868	.735
23	.698	.874	.690
22	.691	.875	.596
94	.647	.886	.596
44	.628	.890	.524
51	.568	.904	.567
54	.521	.914	.571
3	.475	.924	.571
74	.473	.925	.421
28	.451	.930	.333
39	.361	.948	.449
75	.297	.961	.483
41	.296	.961	.275
34	.091	.993	.852
61	.071	.995	.626

#### **Notes for Model (Default model)**

#### **Computation of degrees of freedom (Default model)**

Number of distinct sample moments: 6  
Number of distinct parameters to be estimated: 6  
Degrees of freedom (6 - 6): 0

#### **Result (Default model)**

#### **Minimum was achieved**

Chi-square = .000

Degrees of freedom = 0

Probability level cannot be computed

#### **Model Fit Summary**

#### **CMIN**

Model	NPAR	CMIN	DF	P	CMIN/DF
Default model	6	.000	0		
Saturated model	6	.000	0		
Independence model	3	126.840	3	.000	42.280

**RMR, GFI**

Model	RMR	GFI	AGFI	PGFI
Default model	.000	1.000		
Saturated model	.000	1.000		
Independence model	4.378	.583	.166	.292

**Baseline Comparisons**

Model	NFI Delta1	RFI rho1	IFI Delta2	TLI rho2	CFI
Default model	1.000		1.000		1.000
Saturated model	1.000		1.000		1.000
Independence model	.000	.000	.000	.000	.000

**Parsimony-Adjusted Measures**

Model	PRATIO	PNFI	PCFI
Default model	.000	.000	.000
Saturated model	.000	.000	.000
Independence model	1.000	.000	.000

**NCP**

Model	NCP	LO 90	HI 90
Default model	.000	.000	.000
Saturated model	.000	.000	.000
Independence model	123.840	90.646	164.453

**FMIN**

Model	FMIN	F0	LO 90	HI 90
Default model	.000	.000	.000	.000
Saturated model	.000	.000	.000	.000
Independence model	1.349	1.317	.964	1.750

**RMSEA**

Model	RMSEA	LO 90	HI 90	PCLOSE
Independence model	.663	.567	.764	.000

**AIC**

Model	AIC	BCC	BIC	CAIC
Default model	12.000	12.533	27.323	33.323
Saturated model	12.000	12.533	27.323	33.323
Independence model	132.840	133.107	140.502	143.502

**ECVI**

Model	ECVI	LO 90	HI 90	MECVI
Default model	.128	.128	.128	.133
Saturated model	.128	.128	.128	.133
Independence model	1.413	1.060	1.845	1.416

**HOELTER**

Model	HOELTER .05	HOELTER .01
Default model		
Independence model	6	9

**Output AMOS setelah outlier****Notes for Group (Group number 1)**

The model is recursive.  
Sample size = 89

**Variable Summary (Group number 1)****Your model contains the following variables (Group number 1)**

Observed, endogenous variables  
Y1  
Y2  
Observed, exogenous variables  
X  
Unobserved, exogenous variables  
error1  
error2

**Variable counts (Group number 1)**

Number of variables in your model: 5

Number of observed variables: 3  
 Number of unobserved variables: 2  
 Number of exogenous variables: 3  
 Number of endogenous variables: 2

**Parameter summary (Group number 1)**

	Weights	Covariances	Variances	Means	Intercepts	Total
Fixed	2	0	0	0	0	2
Labeled	0	0	0	0	0	0
Unlabeled	3	0	3	0	0	6
Total	5	0	3	0	0	8

**Assessment of normality (Group number 1)**

Variable	min	max	skew	c.r.	kurtosis	c.r.
X	51.000	82.000	-.007	-.025	-.655	-1.261
Y1	4.919	10.089	-.466	-1.795	.263	.507
Y2	33.000	82.000	-.540	-2.079	1.105	2.128
Multivariate					1.053	.907

**Observations farthest from the centroid (Mahalanobis distance) (Group number 1)**

Observation number	Mahalanobis d-squared	p1	p2
54	16.031	.001	.095
63	12.905	.005	.070
42	10.915	.012	.096
75	7.149	.067	.857
58	6.828	.078	.829
83	6.007	.111	.940
68	5.692	.128	.947
89	5.611	.132	.915
45	5.595	.133	.853
62	5.538	.136	.789
1	5.525	.137	.691
18	5.508	.138	.583
86	5.351	.148	.564
71	5.325	.150	.463
81	5.316	.150	.355
14	5.161	.160	.351
41	4.650	.199	.619
78	4.526	.210	.612
16	4.341	.227	.659



Observation number	Mahalanobis d-squared	p1	p2
4	4.023	.259	.803
56	3.954	.266	.777
29	3.949	.267	.702
67	3.930	.269	.630
15	3.928	.269	.538
76	3.903	.272	.466
12	3.725	.293	.545
17	3.503	.320	.672
10	3.471	.324	.618
11	3.463	.326	.538
35	3.415	.332	.499
21	3.222	.359	.620
66	3.197	.362	.561
60	3.068	.381	.619
87	3.018	.389	.592
6	2.999	.392	.529
65	2.870	.412	.598
50	2.862	.413	.522
34	2.782	.426	.537
84	2.772	.428	.465
74	2.769	.429	.385
47	2.717	.437	.366
31	2.683	.443	.329
73	2.555	.465	.409
25	2.474	.480	.433
82	2.315	.510	.573
7	2.271	.518	.553
19	2.131	.546	.670
39	2.073	.557	.675
8	2.060	.560	.614
30	2.059	.560	.532
77	2.049	.562	.463
64	1.978	.577	.489
61	1.978	.577	.405
57	1.977	.577	.325
24	1.962	.580	.271
23	1.956	.582	.212
5	1.932	.587	.178
13	1.879	.598	.178
46	1.810	.613	.195

Observation number	Mahalanobis d-squared	p1	p2
53	1.678	.642	.302
20	1.645	.649	.275
26	1.495	.683	.445
2	1.474	.688	.393
48	1.358	.715	.522
44	1.355	.716	.436
69	1.282	.733	.485
9	1.248	.741	.459
79	1.231	.746	.399
80	1.177	.759	.411
37	1.137	.768	.397
36	1.121	.772	.332
43	1.073	.784	.332
28	1.042	.791	.300
55	1.000	.801	.287
85	.998	.802	.203
22	.911	.823	.269
38	.801	.849	.404
49	.782	.854	.335
3	.694	.875	.432
32	.648	.885	.425
72	.638	.888	.320
88	.536	.911	.458
27	.390	.942	.747
52	.371	.946	.652
59	.317	.957	.661
40	.280	.964	.594
51	.231	.972	.555
33	.228	.973	.303
70	.202	.977	.129

**Notes for Model (Default model)**

**Computation of degrees of freedom (Default model)**

Number of distinct sample moments: 6  
Number of distinct parameters to be estimated: 6  
Degrees of freedom (6 - 6): 0

**Result (Default model)**

Minimum was achieved

Chi-square = .000

Degrees of freedom = 0

Probability level cannot be computed

**Model Fit Summary****CMIN**

Model	NPART	CMIN	DF	P	CMIN/DF
Default model	6	.000	0		
Saturated model	6	.000	0		
Independence model	3	126.236	3	.000	42.079

**RMR, GFI**

Model	RMR	GFI	AGFI	PGFI
Default model	.000	1.000		
Saturated model	.000	1.000		
Independence model	12.801	.551	.103	.276

**Baseline Comparisons**

Model	NFI Delta1	RFI rho1	IFI Delta2	TLI rho2	CFI
Default model	1.000		1.000		1.000
Saturated model	1.000		1.000		1.000
Independence model	.000	.000	.000	.000	.000

**Parsimony-Adjusted Measures**

Model	PRATIO	PNFI	PCFI
Default model	.000	.000	.000
Saturated model	.000	.000	.000
Independence model	1.000	.000	.000

**NCP**

Model	NCP	LO 90	HI 90
Default model	.000	.000	.000
Saturated model	.000	.000	.000
Independence model	123.236	90.131	163.761

**FMIN**

Model	FMIN	F0	LO 90	HI 90
Default model	.000	.000	.000	.000
Saturated model	.000	.000	.000	.000
Independence model	1.435	1.400	1.024	1.861

**RMSEA**

Model	RMSEA	LO 90	HI 90	PCLOSE
Independence model	.683	.584	.788	.000

**AIC**

Model	AIC	BCC	BIC	CAIC
Default model	12.000	12.571	26.932	32.932
Saturated model	12.000	12.571	26.932	32.932
Independence model	132.236	132.522	139.702	142.702

**ECVI**

Model	ECVI	LO 90	HI 90	MECVI
Default model	.136	.136	.136	.143
Saturated model	.136	.136	.136	.143
Independence model	1.503	1.126	1.963	1.506

**HOELTER**

Model	HOELTER .05	HOELTER .01
Default model		
Independence model	6	8

# **LAMPIRAN 6:**

## **UJI HIPOTESIS**

**Estimates (Group number 1 - Default model)****Scalar Estimates (Group number 1 - Default model)****Maximum Likelihood Estimates****Regression Weights: (Group number 1 - Default model)**

	Estimate	S.E.	C.R.	P	Label
Y1 <--- X	.075	.013	5.736	***	
Y2 <--- X	.202	.085	2.365	.018	
Y2 <--- Y1	5.967	.593	10.061	***	

**Standardized Regression Weights: (Group number 1 - Default model)**

	Estimate
Y1 <--- X	.522
Y2 <--- X	.169
Y2 <--- Y1	.719

**Variances: (Group number 1 - Default model)**

	Estimate	S.E.	C.R.	P	Label
X	46.817	7.058	6.633	***	
error1	.708	.107	6.633	***	
error2	21.912	3.303	6.633	***	

**Squared Multiple Correlations: (Group number 1 - Default model)**

	Estimate
Y1	.272
Y2	.673

**Matrices (Group number 1 - Default model)****Total Effects (Group number 1 - Default model)**

	X	Y1
Y1	.075	.000
Y2	.651	5.967

**Standardized Total Effects (Group number 1 - Default model)**

	X	Y1
Y1	.522	.000
Y2	.544	.719

**Direct Effects (Group number 1 - Default model)**

	X	Y1
Y1	.075	.000
Y2	.202	5.967

**Standardized Direct Effects (Group number 1 - Default model)**

	X	Y1
Y1	.522	.000
Y2	.169	.719

**Indirect Effects (Group number 1 - Default model)**

	X	Y1
Y1	.000	.000
Y2	.449	.000

**Standardized Indirect Effects (Group number 1 - Default model)**

	X	Y1
Y1	.000	.000
Y2	.375	.000

# **LAMPIRAN 7:**

## **SURAT-SURAT PENELITIAN**